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## Derwent Record

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Derwent Title: **Heater support rotation controller in electric fryer - includes spring with biasing force, so as to control rotation of heater support to rise heater upwards**

Original Title: ☒ [JP11235281A2](#): ELECTRIC FRIER

Assignee: **NICHIWA DENKI KK** Non-standard company

Inventor: **None**

Accession/Update: **1999-544073 / 199946**

IPC Code: **A47J 37/12 ;**

Derwent Classes: **P28; X27;**

Manual Codes: **X27-C03A**(Electric fryers)

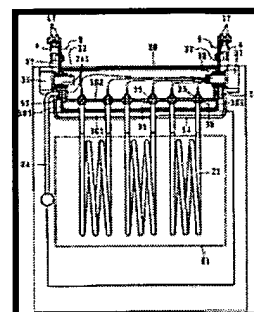
Derwent Abstract: (JP11235281A) **Novelty** - A support (24) supports a heater (21) so that the heater is dipable in an oil bath. A spring (9) enables the rotation of the support, such that the heater rises above the oil bath. When the heater is dipped into oil bath, the torque effected to the support by the spring is controlled to be small. A control lever controls vertical rotation of the support.

**Use** - In electric fryer for business use.

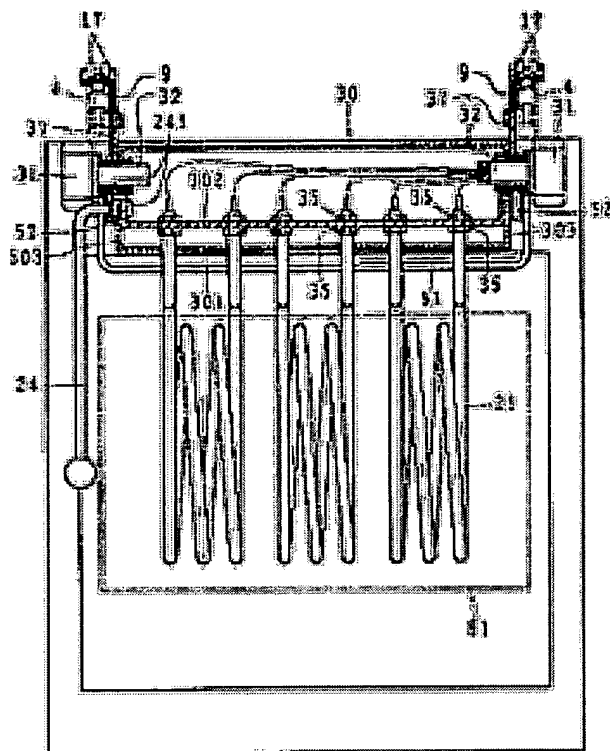
**Advantage** - The power required by control lever to lift the heater is reduced since the biasing force and spring effects rotation of heater in upward lifting. **Description**

**of Drawing(s)** - The figure shows the sectional view of the electric fryer. (9) spring; (21) Heater; (24) Support.

Images:



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Family: PDF Patent Pub. Date Derwent Update Pages Language IPC Code  
☒ JP11235281A \* 1999-08-31 199946 8 English A47J 37/12  
 Local apps.: JP1998000039135 Filed:1998-02-20 (98JP-0039135)

Priority Number:

Application Number	Filed	Original Title
JP1998000039135	1998-02-20	ELECTRIC FRIER

Title Terms: HEATER SUPPORT ROTATING CONTROL ELECTRIC FRY SPRING FORCE SO  
 CONTROL ROTATING HEATER SUPPORT RISE HEATER UP

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JAPANESE PATENT OFFICE

# PATENT ABSTRACTS OF JAPAN

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(71) Applicant: NICHIIWA DENKI KK

(72) Inventor: MATANO HISAO

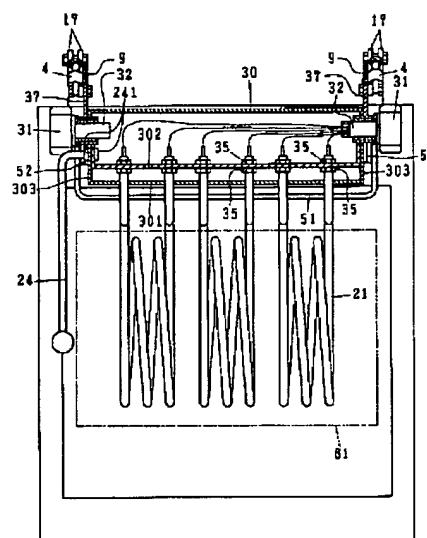
(54) ELECTRIC FRIER

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(57) Abstract:

PROBLEM TO BE SOLVED: To lift a heater for heating inside of the oil tank of an electric frier with small force.

SOLUTION: The frier is provided with the heater 21 vertically moving between the inside of opening upward and its upper side, a heater supporting body 30 arranged in the neighborhood of the upper end opening part of the oil tank and attached with the heater 21, an operation lever 24 successively provided at the body 30 and vertically rotating the body 30 and a spring 9 provided with energizing force for rotating the body 30 in the direction of elevating the heater 21. Then, in a state where the heater 21 is at a lowered position, a rotation torque operated to the body 30 by the spring 9 is set to be smaller than that operated to the body 30 by the weight of the heater 21.



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